PCW 09 22 Coordinate transformations v19

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = \frac{f\left[\frac{x+6}{9}\right] + 5}{8}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = \frac{f[6x+8] - 2}{4}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = 9 \cdot \left(f\left[\frac{x}{4} + 6\right] + 5\right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

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Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = \frac{f[5(x-2)]}{8} - 9$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = 7 \cdot f[3(x+5)] + 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] \ = \ 7 \cdot \left(f \left[\frac{x-4}{6} \right] - 9 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.